

6404. Delaying action of adenosinetriphosphate, on atrophic processes in muscle. G. Bot. A. Kóvér and E. Varga. *Acta physiol. Acad. Sci. Hung.* 1955, 8, 321-326 (Inst. of Physiol. Med. Univ. Debrecen, Hungary). It was shown previously that treatment with ATP diminishes the decrease in the phosphorylating ability of denervated (section of the sciatic nerve) rat muscles. The mechanism of this effect has now been studied. The impairment of the phosphorylase system is greater in glycogen phosphorylation than in the synthetic activity. Denervation does not promote the transformation of phosphorylase-a into -b. The effect of ATP on the phosphorylation of the denervated muscle cannot be attributed to its pyrophosphate component. It is improbable that the ATP effect is exerted through its adenylic acid component by way of activating muscular phosphorylase. (German)

A. R. I. Review

VARGA, Elemer

A rejected proposal has been realized. Ujit lap 12 no.15:30 10 Ag '60.

1. Technikus, Papa.

VARGA, Elemer, okleveles bányamérnök, okleveles bányagépeszmérnök

Safety and economic significance of modern instrumentation in the field of mine ventilation. Bány lap 96 no.4:229-234 Ap '63.

1. Bányászati Kutató Intézet osztályvezetője, Budapest.

VARGA, Emil, dr.

New method in the therapy of muscular atrophy and nerve degeneration. Orv. hetil. 96 no.48:1324-1325 27 Nov 55.

1. A Debreceni Orvostudományi Egyetem Elettani Intézetének  
(igazgató: Went István dr. egyet. tanár) közleménye.

(PROGRESSIVE MUSCULAR ATROPHY therapy,  
ATP)

(NERVES, PERIPHERAL, diseases,  
degen. ther., ATP)

(DEGENERATION  
nerves, ther., ATP)

(ADENYLPHOSPHATE, therapeutic use,  
nerve degen. & progr. musc. atrophy)

VARGA, E.; KOVER, A.; KOVACS, T.; HETENYI, E.

Changes in cholinesterase activity of striated muscle after denervation.  
Acta physiol. hung. 11 no.3-4:235-242 1957.

1. Institute of Physiology, Medical University, Debrecen.

(MUSCLES, physiol.

denervation of striated musc. causing decrease in  
cholinesterase activity.)

(CHOLINESTERASE

in striated musc., decrease in activity after denervation.)

COUNTRY : Hungary  
CATEGORY :

ABST. JOUR. : RZBiol., No. / 1959, No. 281

AUTHOR : Varga, E.; Kover, A.; Kovacs, T.; Ketyesi, E.  
INST. : Hungarian Academy of Sciences  
TITLE : Changes in the Acetylcholine-Sensitivity and

Cholinesterase Activity of Skeletal Muscles  
in the Course of Ontogenesis.

ORIG. PUB. : Acta physiol. Acad. sci. hung., 1957, 11,  
No 3-4, 243-251

ABSTRACT : During the first days of postembryonic life the activity of acetyl-cholinesterase (I) of striated skeletal muscles of rabbit is considerably increased, reaching a maximum by the 7th day, after which it drops gradually, although on the 46th day it exceeds by about 3 times the norm which has been determined in adult animals. Relatively lesser changes are exhibited by the myosin-cholinesterase (II); its activity exceeds by about 3 times the norm during the first days following birth, it reaches a relatively constant level, without a sharply manifested maximum, then decreases gradually. However, on the 46th day it still exceeds the norm. Total activity of

CARD: 1/2

19

VARGA, E.; HETENYI, E.; BOT, Gy.

Influence of adrenalin on muscle phosphorylase activity and its significance in the mechanism of fatigue inhibition. Acta physiol. hung. 11 no.3-4:267-276 1957.

1. Physiologisches und Pathophysiologisches Institut der Medizinischen Universität, Debrecen.

(MUSCLES, physiol.

activation of phosphorylases & simultaneous inhib. of musc. fatigue by epinephrine (Ger))

(EPINEPHRINE, physiol.

activation of musc. phosphorylases & simultaneous inhib. of musc. fatigue (Ger))

VARGA, E.

EXCERPTA MEDICA Sec 2 Vol.2/6 Physiology June 58

3.

2771. EFFECT OF ATP ON PERIPHERAL NERVE DEGENERATION - Beeinflussung der Degeneration peripherer Nerven durch Behandlung mit Adenosintriphosphat - Varga E., Nagy J., Tóth M. and Hetényi E. Physiol. Inst., Inst. für Gerichtl. Med., Med Univ., Debrecen - ACTA PHYSIOL. ACAD. SCIENT. HUNG. (Budapest) 1957, 11/3-4 (277-289) Graphs 5 Tables 2

Rat sciatic nerve was injured over a length of 2 mm. by pinching with ophthalmological forceps. ATP was found to retard the degeneration caused by injury of this kind, but not that following cutting of the nerve. Although the excitability of the damaged nerve was improved by ATP treatment, better histological results were obtained without ATP.



VARGA, E.; HETENYI, E.

Changes of acetylcholine sensitivity and cholinesterase activity of skeletal muscle during ontogenesis. Acta physiol. hung. 11(Suppl):15-16 1957.

1. Physiologisches Institut der Medizinischen Universität, Debrecin.

(MUSCLES, metab.

acetylcholine sensitivity & cholinesterase activity  
changes in skeletal musc. of rabbits during ontogenesis  
(Ger))

(ACETYLCHOLINE, metab.

musc., changes in sensitivity in skeletal musc. of  
rabbits during ontogenesis (Ger))

(CHOLINESTERASE

in skeletal musc., changes in activity in rabbits during  
ontogenesis (Ger))

EXCERPTA MEDICA Sec 2 Vol 12/10 Physiology Oct 59

4490. CHOLINESTERASE ACTIVITY OF CONTRACTILE PROTEINS (PROPERTIES)  
AND PHYSIOLOGICAL FUNCTION) (Russian text) - Varga E. Physiol.  
Inst., Med. Univ., Debrecen - ZH. OBSHC. BIOL. 1959, 20/1 (3-15)

Purified myosin and its component L-meromyosin contain about half of the total ChE activity of the skeletal musculature. A very high myosin-ChE activity is found in both tonic and tetanic muscles in early developmental stages and after denervation. There is an inverse proportionality between the ChE and ATPase activities of myosin. Tonic muscles, which have a high myosin-ChE and a low ATPase activity, are sensitive to ACh and insensitive to ATP, whereas tetanic muscles with their high ATPase and low myosin-ChE activity give a twitch under the action of ATP and are much less sensitive to ACh.

HUNGARY

VARCA, E.; KOVER, A.; KOVACS, T.; JOKAY, I.; SZILAGYI, T.; Medical University of Debrecen, Institute of Physiology and Pathology (Debreceni Orvostudományi Egyetem Élettani és Korelettani Intézete)

"Differentiation of Myosins Extracted From Tonic and Tetanic Muscles Based on Their Antigenic Properties."

Budapest, Kiserletes Orvostudomány, Vol XIV, No 6, 1962, pp 593-599.

Abstract: [Authors' summary] Based on immunological determinations, the authors concluded that

1. myosin is a class-specific antigen,
2. the myosin which exhibits a relatively high cholinesterase and a low adenosinetriphosphatase activity and is obtained from tonic muscles had a structure different from that of the myosin obtained from tetanic muscles.

[Of 25 references, about 9 are Soviet-bloc, 16 Western]

1/1

VARGA, E.; KOVER, A.; KOVACS, T.; JOKAY, I.; SZILAGYI, T.

Differentiation of myosins extracted from tonic and tetanic muscles on the basis of their antigenic properties. Acta physiol. acad. sci. hung. 22 no.1:21-28 '62.

1. Institute of Physiology and Institute of Pathophysiology, Medical University, Debrecen.  
(ADENOSINE TRIPHOSPHATASE) (ANTIGENS) (MUSCLES)

VARGA, E.; KOVER, A.; KOVACS, T.; SZABOLCS, M.; JOKAY, I.

The myosin structure of the different types of muscle. Acta physiol.  
acad. sci. hung. 22 no.2:119-123 '62.

1. Institute of Physiology, Central Research Laboratory, Institute of  
Pathophysiology, Medical University, Debrecen.  
(ADENOSINE TRIPHOSPHATE) (MUSCLES)

HUNGARIAN

VARDA, Emil, KOVAC, Andras, KOVACS, Ede, SZABOLCS, Marton, JONAY, Istvan; Physiological Institute (Florians Interet), Central Research Laboratory (Korpenli Kertato Laboratorium) and Institute of Pathological Physiology (Korpenli Kertato Interet) of the Medical University (Orvosi Tudományi Egyetem) of Debrecen.

"Recent Data on the Myosin Structure of Muscles of Various Types."

Budapest, Kiserletes Orvostudomány, Vol 15, No 1, Feb 63, pp 1-50.

Abstract: (Authors' Hungarian summary) It was shown with immunological methods that immun sera obtained with the myosin of tonic muscles show a nearer relationship to L-meromyosin while those obtained with the myosin of tetanic muscles are more closely related to H-meromyosin. The authors see their hypothesis confirmed that the proportion of meromyosins is displaced in favor of L-meromyosin in tonic muscles which show a high cholinesterase and low adenosinetriphosphatase activity. Of 25 references, about 10 are Eastern European, the rest in Western.

1/1

L 17664-66

ACC NR: AP6009382

SOURCE CODE: HU/0012/65/013/001/0031/0032

AUTHOR: Varga, Elemer

ORG: Mechanical Measuring Instrument Works (Mechanikai Méréseszközök Gyára) 41  
E

TITLE: Selector unit for the measuring location; an accessory to the selecting-type control center

SOURCE: Mérés és automatika, v. 13, no. 1, 1965, 31-32

TOPIC TAGS: telemetry equipment, automatic control system, mechanical measuring tool

ABSTRACT: The construction, operation, and applications of a selector unit, developed at the Mechanical Measuring Instrument Works, was described. It connects the selecting-type control center (described by Hencz, Laszlo; Mérés és Automatika, v. 11, 1963 [page numbers not given]) and the high-precision liquid-level telemeters 10 (described by Urban, Jozsef, and Kutassy, Benedek, in Mérés és Automatika, v. 11, 1963, and v. 12, 1964, nos. 11 and 1, respectively [page numbers not given]). The instrument is capable of selecting the measuring location from among up to 100 individual locations and connecting it to the appropriate circuit in the control center. One block diagram and a table of specifications were presented to

Card 1/2

UDC: 681.2-523.8 2

L 17664-66

ACC NR: AP6009382

illustrate the instrument. Orig. art. has: 3 figures. [JPRS]

SUB CODE: 09, 13 / SUM DATE: 19Nov64 / ORIG REF: 004

fw  
Card 2/2



HUNGARY

VARGA, Emil, Dr; [affiliation not given]

"Went Istvan, Dr. 1899-1963."

Budapest, Kiserletes Orvostudomány. Vol XV, No 4, Aug 1963, pages 337-339.

Abstract: The article is an obituary. No references.

1/1

HUNGARY/Human and Animal Physiology - Metabolism. Ferments.

T-1

Abs Jour : Ref Zhur - Biol., No 18, 1958, 83947

Author : Varga, E., Kover, A., Kovacs, T., Hetenyi, E.

Inst : Hungarian Academy of Sciences.

Title : Changes of Cholinesterase Activity in Striated Muscles after Denervation.

Orig Pub : Acta physiol. Acad. sci. hung., 1957, 11, No 3-4, 235-242

Abstract : At various times after unilateral severance of sciatic nerves in dogs and rabbits, quantity of myosin, activity (A) of myosincholine-sterase (I), i.e., ability of myosin to hydrolyze acetylcholin into the sum total of A cholinesterase (II) of muscles, were determined in intact and denervated gastrocnemius muscles. According to the difference between the last two measurements, A of true cholinesterase (III) was inferred. It was shown that it is

VARGA, Emil; HETENYI, Ede; BOT, Gyorgy

Influence of adrenalin on muscle phosphorylase activity and its significance in the mechanism of the fatigue-inhibiting action. Kiserletes Orvostudomány 11 no.1:89-96 Feb 59.

1. Debreceni Orvostudományi Egyetem Elektani és Korelettani Intézete.

(MUSCLES, physiol.  
eff. of epinephrine on phosphorylase activity & musc.  
fatigue in rabbits (Hun))

(FATIGUE, exper.  
eff. of epinephrine on musc. fatigue & phosphorylase  
activity in rabbits (Hun))

(EPINEPHRINE, eff.  
on musc. fatigue & phosphorylase activity in rabbits  
(Hun))

(PHOSPHORYLASES  
of musc., eff. of epinephrine on activity & musc.  
fatigue in rabbits (Hun))

VARGA, E.; ROZH, K. [translator]; SHESTAKOV, S.V. [translator]

Cholinesterase activity of contractile proteins (properties  
and physiological role). Zhur.ob.biol. 20 no.1:3-15 Ja-F  
'59. (MIRA 12:2)

1. Fiziologicheskiy institut Meditsinskogo universiteta,  
Debretsen, Vengriya.  
(CHOLINESTERASE) (MYOSIN)

VARGA, E.

"Savings of electric power through peak reduction."

p. 153 (Energia Es Atomtechnika) Vol. 10, no. 2/3, May/June 1957  
Budapest, Hungary

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

VARGA, E.

Does the introduction of summer daylight-saving time result in saving electric power? p. 544.

ENERGIA ES ATOMTECHNIKA. (Energiagazdalkodasi Tudomanyos Egyesulet)  
Budapest, Hungary, Vol. 11, No. 9/10, Sept./Oct. 1958.

Monthly list of last European Accessions (EEAI) LC, Vol. 8, No. 7, July 1959.  
Uncla.

VARGA, E.; FALSI, L.

Investigation of the prospective evolution of the peak load in unchecked consumption. p.759.

ENERGIA VS ATOMTECHNIKA. (Energiagazdalkodasi Tudomanyos Egyesulet)  
Budapest, Hungary  
Vol. 11, no.11/12, Nov./Dec. 1958

Monthly List of East European Accessions (EAI) IC., Vol. 8, no.7, July 1959  
Uncl.

WAGNER E. - A Szegedi Tudomány. Seb. Klinikájának kcs. Munkájának ari szerelése, -editions  
in agricultural occupations, Nepegessegugy, Budapest 1950, 31/1 (32-36) Graphs 2, Tables 14

50: Medical Microbiology and Hygiene, Section IV, Vol 3, No. 1-6

COUNTRY: : Hungary  
 CATEGORY :  
 ABS. JOUR. : RZKhim., No. 22 1959 No. 79503  
 AUTHOR : Varga, E.  
 INST. : Not given  
 TITLE : The Cerimetric Determination of Antaethyl (Antabus, TTD).  
 ORIG. PUB. : Acta Pharmac Hung, 28, No 1-2, 38-42 (1958)  
 ABSTRACT : Tetraethylthiuram disulfide (TTD) is oxidized in  $\text{CH}_3\text{COOH}$  solution with an excess (ca 50%) of 0.1 N  $\text{CeSO}_4$ . After 5 min the excess  $\text{CeSO}_4$  is titrated with 0.1 N  $\text{FeSO}_4$ . One ml of 0.1 N  $\text{CeSO}_4$  is equivalent to 0.002965 gm TTD. For quantitative determinations, 100 Y of a catalyst, e.g., KI or NaI is added. The determination is carried out at about 20° inasmuch as a lowering of the temperature leads to a low reading.  
 F. Raytses

CARD: 1/1



COUNTRY : Hungary  
CATEGORY :

79504

ABST. JOUR. : RZKhim., No. 22 1959 No.

AUTHOR : Varga, E. and Vastagh, G  
INST. : Not given  
TITLE : The Determination of Fonurit (Diamox)

ORIG. PUB. : Acta Pharmac Hung, 28, No 1-2, 44-49 (1958)

ABSTRACT : It has been established that Fonurit (Diamox, 2-acetylamino-5-sulfamido-1,3,4-thiadiazole, I) on treatment with alkali cleaves in such a way that the takeup of cerium bromate, hypiodite, and sulfate is a function of the concentration of the alkali used. The authors have developed a bromometric method for the determination of I in tablets. 0.06-0.12 gm of sample is refluxed for 30 min with a 30% solution of NaOH, and the resulting solution is diluted with water to 50 ml to give an

CARD: 1/5

220

COUNTRY : Hungary

n-1-

CATEGORY :

APS, JOUR. : RZKhim., No. 22 1959 No.

79501

AUTHOR :

INIT. :

TITLE :

ORIG. PUB. :

ABSTRACT : solution is treated with 10 ml of 0.1 N  $I_2$  solution, the resulting solution is diluted with 100 ml water, and titrated with 0.1 N  $Na_2S_2O_3$ . One ml of 0.1 N  $I_2$  solution is equivalent to 0.001692 g. The above method cannot be used when the tablets contain milk sugar.

F. Raytses

CAN: 5/5

221

VARGA, E.

Laszlo Meduna (1896-1964). Orv. hetil. 106 no.42:1998-2000  
17 0 '65.

VARGA, Elemer, okleveles banyamernok, es okleveles hanyagepeszmernok;  
BENDE, Imre, okleveles banyamernok

Ventilation of a mine with more than two openings to the surface.  
Bany lap 95 no.10:623-630 0 '62.

1. Banyaszati Kutato Intezet.

VARGA, Elemor

Electric table recorder. Meres automat 12 no.10:331-332 '64.

1. Measuring Instruments Factory, Budapest.

VARGA, Elemer

Measuring place selecting unit. Mares automat 13 no.1:31-32 '65.

1. Measuring Instruments Factory, Budapest.

VARGA, Endre

Achievements and tasks in our electric power economy. Villamosag  
8 no.11:339-340 N '60.

1. Orszagos Villamosenergia Felugyelet.

VARGA, Endre

Further possibilities of making our time-table economy  
economically more profitable. Villamossag 9 no.7:214-217  
Jl '61.



OSZTROVSZKY, Gyorgy; Schiller, Janos; PALFI, Laszlo, okleveles villamosmernok;  
BOZSIK, Ferenc; GYORI, Attila, okleveles villamosmernok, foenergetikus;  
VARGA, Endre, okleveles gepeszmernok; TURAN, Gyorgy, okleveles gepesz-  
mernok; SZENDY, Karoly, dr., fokonstruktor; KOVACS, Ferenc, okleveles  
villamosmernok; CSILY, Jenő, fodiszepecsor; BEREZNAY, Frigyes, fomer-  
nok; PALOS, Ferenc, okleveles mernok; FILARSZKY, Zoltan, okleveles  
gepeszmernok; NEMETH, Imre, okleveles villamosmernok, fomernek; AL-  
PAR, Imre, okleveles gepeszmernok, foenergetikus; GATI, Geza, okle-  
veles villamosmernok; BEKE, Gyula, okleveles gepeszmernok; VISNYOV-  
SZKY, Endre, foeloado; VERKITS, Gyorgy, okleveles villamosmernok, fo-  
mernok; FUTO, Istvan, okleuels gepeszmernok; NAGY, Karoly; PIKLER,  
Ferenc; SZEPESSY, Sandor, okleveles gepeszmernok; NADAY, Zoltan, ok-  
leveles gepeszmernok, fotecnologus; BUCHHOLCZ, Janos, okleveles ge-  
peszmernok, fomernek

An account of the 11th itinerant meeting of the Hungarian Electro-  
technical Association held in Pecs, July 18-20, 1963. Energia es atom  
16 no.12:559 D '63.

(Continued on next card)

SZABO, Dönes, Dr.; VARGA, Endre, Dr.; TOTOK, Gabriella Dr.

Potentiated local anesthesia. Orv. hetil. 99 no.43:1493-1497 26 Oct 58.

1. A Szegedi Varosi Tanacs Kozhaza (igazgato: Nagy Laszlo dr.) Sebeszeti Osztalyanak (foorvos: Szabo Dönes dr.) kozlemenye.

(HIBERNATION, ARTIFICIAL

potentiation of local anesth. (Hun))

(ANESTHESIA, LOCAL

potentiation by artif. hibernation (Hun))

VARGA, Endre, Dr.

Experiences in connection with the therapy of Reiter disease patient.  
Orv. hetil. 100 no.13:485-486 29 Mar 59.

1. A Zirci Jarasi Tanacs Korhaza (igazgato: Luksz Sandor dr.)  
Belosztalyanak (foorvos: Varga Endre dr.) kozlemenye.  
(REITER'S DISEASE, ther.

chloramphenicol, case report (Hun))  
(CHLORAMPHENICOL, ther. use  
Reiter's dis., case report (Hun))

VARGA, Ervin, dr.

Depression with archaic socio-cultural overtones. Ideggügy  
szemle 17 no.2:59-63 F'64.

1. Budapesti Orvostudományi Egyetem Pszichiatriai Klinikájának  
(igazgató: dr. Nyíró, Gyula, egyetemi tanár) közleménye.

\*

VARGA, Ervin, dr., kandidatus

My observations on the English medical psychology.  
Magy pszichol szemle 21 no. 1: 99-103 '64. .

VARGA, Ervin, dr., kandidatus

Intuition and reference in creative work and psychosis. Magyar pszichol szemle 21 no.2:211-215 '64.

1. Psychiatric Clinic (Director: Dr. Gyula Nyiro), Budapest Medical University.

VARGA, Ervin, dr., kandidatus

"Premarital dating behavior" by Dr. W. Ehmann. Reviewed by  
Ervin Varga. Magyar pszichológiai szemle 21 no.2:293-295 '64.

1. Psychiatric Clinic (Director: Dr. Gyula Nyíró), Budapest  
Medical University.

PSYCHIATRY

HUNGARY/UNITED KINGDOM/SWITZERLAND

VARGA, Ervin, Dr., Candidate, Holder of a WHO Scholarship, ANGST, Jules, Professor, Dr., and SHEPHERD, Michael, Professor, Dr., Psychiatric Clinic at the Medical University (Orvosegyetem Pszichiatriai Klinika) in Budapest; Psychiatric Clinic at the University in Zurich, Switzerland; and Institute for Advanced Psychiatric Studies at the University in London, United Kingdom.

"Evaluation of Treatments for Depression (Comparative, Retrospective Analysis)"

Budapest, Ideggyogyaszati Szemle, Vol 19, No 6, Jun 1966, pp 169-171.

Abstract: This report is part of the International Study of Depression conducted simultaneously in Hungary, United Kingdom, and Switzerland and describes an analysis of 910 patients treated in Maudsley and Bethlem hospitals in the United Kingdom according to the methodology described in Brit. Med., 1965, No 1, pp 881-886 [author's name not given]. The summary discussed has been obtained by mechanical processing of the clinical data. One reference to a Western publication. (Manuscript received Dec 1965 [day of the month not given]).

1/1



HUNGARY

VARGA, Ervin, Dr.: Medical University of Budapest, Psychiatric Clinic  
(director: NYIRO, Gyula, Dr. professor) (Budapesti Orvostudományi Egyetem,  
Psychiatriai Klinika).

"Retrospective Comparative Analysis of the Treatment of Depression (in  
Patients Hospitalized in Budapest) (Preliminary Communication II)."

Budapest, Ideggyógyászati Szemle, Vol XIX, No 7, Jul 66, page 224.

Abstract: The study was aimed at the comparison of the results of non-specific modes of treatment. The method used in the Hungarian study was adapted to the technique of the Medical Research Council. The results were compared with those of the most generally used antidepressant therapy (ES, MAOI, tricyclic group) used in British patients. The data were classified with respect to diagnostic distribution, sex, age, marital status as well as the type of treatment administered. The distribution of the patient material corresponds to that of the general population. Intellectuals were found in greater proportion among the depressive patients than in the general population. There appears to be no general principle for the choice of the initial mode of selective therapy. The data indicate that severe depression was finally treated mostly with ES and tricyclic compounds. In both groups, whether they received specific therapy or non-specific treatment, about 20 per cent of the patients were resistant to the treatment and went into chronic depression. 1 Hungarian, 2 Western references.

HUNGARY

VARGA, Ervin, Dr, CLASZ, Julia, Dr; Medical University of Budapest, Psychiatric Clinic (director: NYIRO, Gyula, Dr) (Budapesti Orvostudományi Egyetem, Pszichiatriai Klinika).

"Clinical Experiences with a New (Non-Barbiturate Type) Sleeping Pill (Motolon)."

Budapest, Orvosi Hetilap, Vol 107, No 44, 30 Oct 66, pages 2088-2089.

Abstract: [Authors' Hungarian summary] A new type of sleep-inducing drug (methaqualon belonging to the antimalarial group and manufactured by the Chinoin Factory under the name Motolon) was used to induce prolonged sleep therapy in 31 patients. The experiences indicate that the course of the sleep therapy satisfied the requirements expected of sleep therapies when induced by other drugs. It is considered to be a safe sleeping drug with rapid, lasting effect, few and mild side effects, which can also be given to aged patients. 2 Hungarian, 9 Western references.

VARGA, Ervin, dr.,; SOLYOM, László, dr.

Objective method of investigation on the psychical activity  
bases on the Pavlovian theory. Orv. hetil. 96 no.7:183-186 13  
Feb 55.

1. A Budapesti Orvostudományi Egyetem Ideg-síne Klinikájának  
(igazgató: Nyíró Gyula dr. egyet. tanár) közleménye.  
(PSYCHIATRY,

Pavlovian theory in investigation psychical activity)

VARGA, Ervin

A new method for the experimental testing of speech perception in psychiatry. Biol orv kozl MTA 11 no.1:73-93 '60. (EEAI 10:1)

1. Budapesti Orvostudományi Egyetem Pszichiatriai Klinikája.  
(PYSCHIATRY) (SPEECH)

PROCESSING AND PROPERTY INDEX																									
GENERAL INDEX													METALLURGICAL LITERATURE CLASSIFICATION												
SUBJECT INDEX													AUTHOR INDEX												
TITLE INDEX													SUBJECT INDEX												
<p><b>CA</b></p> <p>The determination of chlorine in insecticides. <i>Gábor Vastagh and Hrszket Varga. Magyar Kém. Lapja 3, 80-81(1948).</i> The sample is refluxed with metallic Na in petr. ether for 5-6 hrs., any metallic Na left is removed by adding 15-20 cc. water through the condenser tube, the mixt. is acidified with concd. HNO<sub>3</sub>, and washed into a sepg. funnel, the aq. phase is sepd. and washed with a mixt. of petr. ether and amyl alc., then twice with 5 cc. water; the united aq. portions are treated with 10 cc. 0.1 N AgNO<sub>3</sub>, and excess AgNO<sub>3</sub> is titrated with 0.1 N thiocyanate. For a micromethod, 0.01 N solns. should be used in the titrations. <i>István Fimale</i></p>																									

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
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Preservation of chloroform used in the determination of vitamin A. Gábor Vastagh and Károly Varga. *Magyar Kém. Lapja* 3, 485-6(1948).--To the usual  $\text{CHCl}_3$ , free from water and traces of alc., should be added 1 vol. % petr. ether b. 50-70°. No autoxidation could be detected in 3 months in  $\text{CHCl}_3$  so preserved. The addn. of petr. ether did not affect the Carr-Price test. I. Finally

ASD-51A METALLURGICAL LITERATURE CLASSIFICATION

VARGA, E.

HUNGARY/Analytic Chemistry - General Topics.

E-1

Abs Jour : Ref Zhur - Khimiya, No 10, 1958, 32134

Author : E. Zöllner, E. Varga

Inst : Academy of Sciences of Hungary

Title : Influence of Bromide Amount on Bromatometry.

Orig Pub : Acta chim. Acad. sci. hung., 1957, 12, No 1, 1-13.

Abstract : The influence of bromide (I) on the results of determination of various organic compounds by the bromatometric method was investigated. It was found that the presence of I (without any regard to the type of the accompanying cation) often considerably influences the reaction (bromination, oxidation, substitution, or adduction) course especially in the case of compounds containing a S atom, which can be oxidized, and which reduces the results. The degree of the result reduction depends on the type

Card 1/2

HUNGARY/Analytic Chemistry - General Topics.

E-1

ABs Jour : Ref Zhur - Khimiya, No 10, 1958, 32134

of the organic compound and on the absolute quantity of the present I, but it always approaches some determined magnitude (for example, 85.21% in the case of baseterine, 52.90% in the case of methionine at 5.0 g of KBr), although an excess of I always produces reduced results independently of the changes in other factors influencing the reaction as the temperature, an excess of bromate, etc. It is necessary strictly to observe the amounts of I (0.15 to 0.50 g of KBr) recommended in directions in order to obtain the best results.

Card 2/2

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The mechanism of the closing of the isouquinoline chain  
Gábor Farkas and Eva Varga. *Magyar Kém. Folyóirat*  
64, 85-70(1939).—The closing of the chain of  $\alpha$ -acylated  
 $\beta$ -acylamino-propenols was investigated during their  
conversion to 3-methylisouquinolines. The intermediate  
product showed an ultraviolet spectrum similar to the  
isoquinoline type but wholly unlike the isouquinoline or  
acetylamine type and its structure could be stated on the  
basis of this observation. The formation of isouquinoline  
takes place through a compd. of the arylacylvinylamine  
type. S. S. de Finaly

1ST AND 2ND COLUMNS		PROCESS AND PROPERTIES INDEX		100 AND 2TH COLUMNS																																																						
<p>CA</p> <p>Light absorption and structure of Schiff bases. Éva VARGA. <i>Magyar Chem. Folyóirat</i> 45, 83-90 (1939). - Absorption spectra between 200-400 mμ have been detd. in a soln. of abs. alc. by means of a Zeiss spectrograph, between 400-600 mμ by means of a quartz prism of the same app. and above 400 mμ by means of a König-Martens photometer. The values of mol. extinction were calcd. on the basis of the law of Beer-Lambert. The results proved that azomethines alone have no specific selective light absorption. In case of the Schiff bases the azimine-amine tautomerism is present at any time when a quinoid transformation of the mol. takes place. Thus a new band appears at 440 mμ. In case of 3-hydroxybenzalamines this new band could not be observed. The transformation <math>RCH:NCH_2R' \rightleftharpoons RCH=N:CHR'</math> did not take place even in the case when this transformation would form a conjugated system (e. g., quinonimine structure). The characteristic band of 2- and 4-hydroxybenzalamines seems to be due neither to a "H bridge" nor to a hetero chain. It possibly may result from the formation of a quinoid ring structure. The possibility of a hetero ring seems improbable. S. S. de Pinsky</p>																																																										
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The effect of nonelectrolytes on the electrode potentials of amalgams and on the adsorption of amalgamated metals. T. Erde Griz and B. Varga (Tudományegyetemi Fizikai-Kémiai és Radiológiai Intézet, Budapest, Hung.). *Hung. Acta Chim.* 1, No. 2, 19-27 (1947).—The potentials of resting and dropping amalgams of Bi, Pb, Cd, Tl, and Zn were detd. in solns. of various boamyl alc., benzyl alc., o-toluidine, o-cresol, p-cresol, butyric acid, and valeric acid. To make the solns. elec. conductors,  $\text{Na}_2\text{SO}_4$  was added and both solns. and app. were carefully freed of  $\text{O}_2$ . When the amalgam concn. was above  $10^{-4}$ – $10^{-5}$  g.-atom per l., the electrode potentials are reproducible to millivolts; they are changed by the presence of nonelectrolytes; the potentials are detd. partly by the adsorption of ions and neutral dipole molcs. on the liquid side of the boundary between metal and soln., partly by adsorption of metal ions on the amalgam side of the double layer. The potential of amalgam electrodes varies according to  $E = a - b \cdot \log[\text{am}]$ , where  $a$  and  $b$  are consts., and  $[\text{am}]$  is concn. of the amalgam. Const.  $b$  ranged between 0.014 and 0.068; it was chiefly affected by the valence of the metal. Const.  $a$  showed larger variations according to the nature of metal and of nonelectrolyte. The quantity of adsorbed metal ions per unit of interface is roughly proportional to the concn. of the metal in the amalgam. The adsorbed metal ions form the positive part of the double layer created within the amalgam. The negative part consists of diffusely distributed electron. 10 references. (István Fényi)

AND PROPERTIES INDEX																									
54 Desulphurizing experiments made with calcium aluminate slag in a cupola furnace, by E. Varga. "On Gub." Foundry Vol. 1, No. 10, pp 228-232, Oct. 1950																									
<p>Plat plan experiments were conducted in a furnace of 600 mm diameter, in which the aluminum oxide content varied and to study how the sulphur content of slags desulphurized with the content of these experiments. In all experiments of the required limestone were replaced by aluminite slag. The sulphur content of the was the lowest when 30 per cent of the limestone substituted by slags. When the aluminite content in the slags was highest, the sulphur content was at its lowest. The correlation between the content of the iron and calcium oxide content of the way less pronounced. Desulphurizing was more satisfactory when 30 per cent of the required limestone replaced by raw barite ore, in the experiments the correlation between the sulphur content of the aluminite oxide content of slags was not as pronounced when employing calcium aluminite slags. The experiments affirmed that with the proper conditions and under the simultaneous formation of aluminite, desulphurizing can be performed in a cupola furnace.</p>																									
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LIBOR, Oszkar; VARGA, Eva

Binding and desorption of biologically active microelements  
on glauconite. Agrokem talajtan 12 no.4:621-630 D '63.

1. Department of Chemical Technology, Lorand Eotvos University,  
Budapest.

FODOR, Gabor, akademikus; BEKE, Denesne; BITE, Pal, kandidatus; DOBO, Pal;  
FARKAS, Lorant, kandidatus; F. VARGA, Eva; LEMPert, Karoly, kandidatus;  
OTVOS, Laszlo, kandidatus; SZANTAY, Csaba, kandidatus; URESCH, Ferenc

An account of the Prague Symposium on Natural Organic Compounds.  
Kem tud kozl MTA 19 no.1:95-103 '63.

1. Magyar Tudomanyos Akademia Sztereokemiai Kutato Csoportja,  
Budapest (for Fodor, Beke, Lempert, Otvos, Uresch). 2. Magyar  
Tudomanyos Akademia Kemiai Tudomanyok Osztalya (for Bite, Dobo,  
Farkas, F. Varga, Szantay). 3. "A Magyar Tudomanyos Akademia  
Kemiai Tudomanyok Osztalyanak Kozlemenyei" szerkeszto bizottsagi  
tagja (for Fodor).



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CA

**Desulfurizing experiments in a cupola furnace with calcium aluminate slag.** *Füzető: Varga, Ötödik 1, 228-32 (1950).*—The slag of cupola furnaces contains SiO<sub>2</sub> 10-50, Al<sub>2</sub>O<sub>3</sub> 10-15, CaO 25-35, Fe<sub>2</sub>O<sub>3</sub> 3-8, MnO<sub>2</sub> 1-3, MgO 0.3-1.0, and S 0.1-0.2%. Two ways of increasing the Al content of slag were tested in a cupola furnace of 600 mm. diam.: (1) 10-50% of the limestone was replaced by Ca aluminate slag contg. SiO<sub>2</sub> 10.80, Al<sub>2</sub>O<sub>3</sub> 23.78, CaO 16.40, Fe<sub>2</sub>O<sub>3</sub> 2.42, MnO<sub>2</sub> 1.75, MgO 11.62, TiO<sub>2</sub> 1.43, and S 0.035%, or (2) 20% of the limestone requirement was replaced by raw kauxite ore contg. SiO<sub>2</sub> 12.32, Al<sub>2</sub>O<sub>3</sub> 42.23, CaO 5.61, Fe<sub>2</sub>O<sub>3</sub> 20.37, MnO<sub>2</sub> 1.13, MgO 4.96, TiO<sub>2</sub> 0.92, and S 0.038%. A definite correlation was observed between the S content of the Fe produced and the Al<sub>2</sub>O<sub>3</sub> content of the slag: higher Al<sub>2</sub>O<sub>3</sub> contents in the slag occurring with lower S content in the Fe. For addn. of kauxite this correlation was not so definite. When using Ca aluminate slag or kauxite in amounts equal to 20% of the limestone requirement, the S content of the Fe was 0.0051, 0.0083, or 0.0082, 0.0106, resp., the Al<sub>2</sub>O<sub>3</sub> content of the slag being 10.83, 31.92, or 11.40, 33.17%, resp. The expts. demonstrated the possibility of desulfurizing in a cupola furnace. István Fiala

C H

9

Applicability of pig iron produced under high aluminous slag. N. Haft6 and F. Yarga. *Acta Tech. Acad. Sci. Hung.* 1, No. 1, 8-21(1950)(in English).—A metallographic and metallurgical study was made of the possible use in gray iron foundries of a "bauxite pig iron" produced in a pilot-plant blast furnace from iron chips and bauxite slag. Results indicated that it will be a valuable base material for gray iron and malleable iron castings if large-scale production of a uniform-quality pig iron comes about. Also in *Banyisz. Kohasz. Lapok.* 82, 483-9(1949). . . . A. J. Abbott

H. I. A.

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70. Report on experiments for producing nodular graphite cast iron — Beszámoló a gömbi-grafitos öntöttvas előállítására vonatkozó kísérletekről — by F. Varga, (Foundry — Öntőde — Vol. II, No. 3, pp. 97-111, May 1951, 48 figs., 7 tabs.)

After a brief review of the development of nodular graphite cast iron, the study deals in detail with plant experiments performed in Hungary. Attempts have been made with various key alloys to introduce the magnesium into the bath, and on the basis of these tests a Fe-Si-Cu-Mg key alloy was found best suited for this purpose. Since the cupola furnace proved to be the most economical for the production of spherical graphite cast iron, the effect of the composition of the charge on the formation of graphite was also investigated. The results showed that the composition of the charge has no particular bearing on the formation of graphite. Three series of experiments were made, one of which is dealt with at length giving tables on the composition of the charge and on the finished product. The precondition for the formation of nodular graphite is suitable bath temperature and the treatment of the bath with a sufficient quantity of alloy. Mention is made of the desulphurizing effect of Mg-Si key alloys as well as the role of Mg in the formation of nodular graphite. An account is rendered on the mechanical properties of manufactured nodular graphite cast iron. Numerous photomicrographs of the structure are presented.

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VARCA, FIVE 81p

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5-19-54  
B. T. R.  
Vol. 3 No. 4  
Apr. 1954  
Metals-Foundry Practice

5290\* The Basic Cupola. (Hungarian.) Feteve Varga.  
*Onitodo*, v. 4, no. 10, Oct. 1953, p. 205-213.  
Describes different methods of desulfurization processes and  
development of basic lined cupola. Operation and costs are  
discussed. Tables, graphs, diagrams. 20 ref.

VARGA, Ferenc

Work plan of the Division of Founding for the first half of 1954. Koh lap 9 no. 2: Supplement: Ontode 5 no. 2: 48 F '54.

Conference on malleable cast iron arranged by the Mosonmagyaróvár Factory of Agricultural Machines. Ibid.; 48.

1. "Kohászati Lapok" szerkeszto bizottsagi tagja.

VARGA, Ferenc

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113 My '54.

1. "Kohaszati Lapok" szerkeszto bizottsagi tagja.



VARGA, Ferenc; JANOSSY, Kazmer

Acid resistance and alkali resistance investigation of  
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VARGA, Ferenc; KOROS, Bela; CHAPO, Elek; JANOSSY, Kazmer; SIMA, Rezső

Manufacturing conditions and properties of modified cast  
iron. Pt. 2. Koh lap 9 no. 9: Supplement: Ontode 5 no. 9:  
193-208 S '54.

70. Wear resistance tests on modified cast iron conductors in laboratory and in railway service — P. Várza, E. Füle. (*Kohászati Lapok, Budapest* — Vol. 5, 1955, No. 4, pp. 85—91, 10 figs., 2 tabs.)

MG

Laboratory and service tests have been conducted on brake shoes made of modified cast iron. Both have proved that shoes of cast iron modified with  $\text{CaSi}$  are far more resistant to wear than those of plain cast iron having the identical degree of hardness. Shoes of cast iron modified with  $\text{FeSi}$  however did not show a marked improvement. This can be explained by the fact that the arrangement of the graphite and the structure of cast iron modified with  $\text{CaSi}$  are more satisfactory than those of cast iron modified with  $\text{FeSi}$ .

VARGA, F.

The industrial fair at Leipzig, spring 1955. p. 97.

Vol 6, no. 5, May 1955. KOHASZATI LAPOK. Section on ONTODE. Budapest, Hungary.

So: Eastern European Accession. Vol 5, no. 4, April 1956

VARGA, F.

Situation and tasks in our foundries. p. 3.  
UJITOK LAPJA, Budapest, Vol. 7, no. 3, Feb. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,  
Uncl.

VARGA, F.

Next tasks in our foundries. p. 4

MUSZAKI ÉLET. (Muszaki es Termeszettudomanyos Egyesuletek Szovetsége) Budapest

No. 13, July 1955

SO: Monthly list of East European Accessions, (SEAL), Vol 4, No. 11 Nov. 1955 Uncl.

VARGA, F.; ~~REDACTED~~.

Investigation from the viewpoint of wear resistance of inoculated gray iron in the laboratory and in railroad operation. p. 85. KOHASZATI IAPOK, (Magyar Banaszati es Kohaszati Egyesulet) Budapest. Vol. 10, No. 4, Jan. 1955

SOURCE: East European Accessions List (EEAL) Library of Congress  
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Varga, Ferenc

1981a Experiments on Gray Cast Iron to Improve Their  
Q-ness by Double Infiltration of Various Neomagnetic Refr-  
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not 9

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Effect of a hot blast on reactions occurring in a cupola furnace; a review of an article.  
p. 235 (Kohaszati Lapok Budapest Vol. 11, no. 10, Oct. 1956 Ontode Vol. 7, no. 10)

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VARGA, F.; PATZMAN, L.; TITM, R.

Production experiences with basic cupola furnaces.

P. 204. (CONTOL.) (BUDAPEST, HUNGARY) Vol. 8, No. 9/10, Oct. 1957

SO: Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 5, 1958



JARGA, F.

Importance of the basic-lined, hot-blast cupola for Siemens-Martin factories. p. 21.  
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SO: Monthly List of East European Accessions (MEAL) LC. Vol. 6, no. 12, Dec. 1957.  
Uncl.

...VARGA, Ferenc

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Koh lap 12 no. 7:Supplement: Ontode 8 no. 7/8 199 J1-Ag '57.

VARGA, Ferenc

"The Jungbluth diagram and the change of fillers in cold-blast cupola furnaces" by W. Patterson. Reviewed by Ferenc Varga. Koh lap 12 no. 4/5 Supplement: Ontode 8 no. 4/5 117-120 Ap-May '57.

VARGA, Ferenc; KALMAN, Lajos; SIMA, Rezso

Experiences in the operation of basic cupola furnaces. Koh  
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1. Vasipari Kutato Intezet es a Csepel Vas-es Ace Iontodek.
2. "Kohaszati Lapok" szerkeszto bizottsagi tagja (for Kalman).

F VARGA

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/// The operation and metallurgical process of a basic lined cupola with cold blast. F. Varga. *Przeglad Odczynniczy* 8, 284-91(1958).—V. briefly discussed the characteristic feature of cupola construction development during the last 100 years. Further the expts. on operation of cupolas of various capacity were described, particularly the effect of application of basic lining on the production cost, and metallurgical processes. The expts. revealed, that with the increase in cupola diam., the specific wear of lining, expressed in mm./ton, diminished. The comparison between the various kinds of lining, including magnesite, dolomite, dolomitomagnesite, corundum, and acid lining, showed that the dolomitomagnesite lining had a high wear resistance. The higher cost of a basic lining was compensated by gain in metal quality. The effect of flux quantity on the chem. compn. of cast iron was also investigated. The optimum flux addn. was 6%, higher quantities were likely responsible for some operational troubles. The statistical data of 46 acid and 42 basic melts from a cupola 900 mm. in diam., as well as of 105 acid and 98 basic melts from a cupola 1300 mm. in diam. were analyzed. In basic-lined cupolas lower S contents could be obtained with higher degree of probability, than in acid-lined furnace. The curves showing the relation between basicity of slag and the extent of desulfurization were outlined. In basic-lined cupolas with increase in diam. a higher degree of desulfurization and a lower slag basicity could be obtained. W. Tomaszczuk

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VARGA, FERENC

Ferenc Varga

Metallurgy of basic-lined cold-blast cupolas. Ferenc Varga (Vasipari Kutató Intézet, Budapest, Hung.). Doc. 1036 9, 235-42 (1958); cf. ibid. 7, 169-76, 201-9 (1956).—By increasing the amt. of slag-forming materials (I) in a 300-mm. magnesite-lined cupola, an increase in Si and Mn oxidation rate, a decrease in C content, an increase in desulfurization, and a decrease in P pickup was observed. In a 600-mm. cupola 46 acid and 42 alk. and in a 1800-mm. cupola 108 acid and 98 alk. batches were observed. Compn. of the ingots was detd. by analysis and was also calcd. The results were tabulated and evaluated. Relations between the nature and amt. of I and ingot compn., ingot quality, and auxiliary element ratio changes were established. The effects of basic slags upon desulfurization were studied. L. G. Arveson

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VARGA, F.

HAJTO, N.

Alloyed cast-iron products produced without the use of imported alloyings. p. 42.

KOHASZATI LAPOK. (Magyar Banyaszati es Kohaszati Egyesulet) Budapest, Hungary  
Ontode. Vol. 10, no. 2/3.

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The hot-blast cupola and its profitability. . . 209.

KOHASZATI IROK. (Magyar Bonyaszati es Kohaszati Egyesulet) Budapest, Hungary.  
Vol. 10, no. 9.

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Uncl.

VARGA, F.

Operations and metallurgic processes in cold-blast cupola furnaces. p.235

KOHASZATI KAPOK. (Magyar Banyaszati es Kohaszati Egyesult)  
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Vol. 13, no.10/11, Oct./Nov. 1958

Monthly List of East European Accessions (EEAI) LC., Vol. 8, no.7, July 1959  
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VARCA, F.

Foundry Days, April 6-7, 1959. p. 137.

KOHASZATI LAPOK. (Magyar Bányászati és Kohászati Egyesület) Budapest, Hungary  
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August 1959.  
Uncla.

VARGA, Ferenc

"Enamel adhesion and chemical composition of cast iron" by A. Hautmann.  
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Ja '60.

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VARGA, Ferenc; FARAGO, Elza

Ternary constitutional diagrams for foundry sands. Koh lap 93 no.5:  
Suppl. Ontode 11 no.5:106-111 My '60.

1. Vasipari Kutato Intezet.

VARGA, Ferenc; V. FARAGO, Elza

Mechanization of core production. Koh lap 93 no.6:Suppl: Ontode 11  
no.6:126-132 Je '60.  
1. Vasipari Kutato Intezet.

VARGA, Ferenc

The 12th Mining and Metallurgic Days, Freiberg, June 8-11, 1960.  
Koh lap 93 no.9: Suppl: Ontode 11 no.9:213-214 S '60.

1. "Kohasziati Lapok" szerkesztoje.

KALMAN, L.; VARGA, Ferenc

The 27th International Foundry Congress. Koh lap 93 no.12: Suppl:  
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1. "Kohaszati Lapok" szerkesztoje (for Varga).



VARGA, Ferenc, dr.; VERESKOI, Janos, dr.

The effect of bubbling nitrogen gas on the properties of cast iron. Koh lap 95 no.11: Suppl: Ontode 13 no.11:241-247 N '62.

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VARGA, Ferenc, dr.

"Foundry shaping materials" by Dr. R. Grochalski. Reviewed by Ferenc Varga. Koh lap 95 no.11: Suppl.4; Ontode 13 no.11:254, N '62.

VARGA, Ferenc, dr.

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by G.I.Pogodin-Alekseyev, Yu.A.Geller, A.G.Rahstadt. Reviewed  
by Ferenc Varga. Koh lap 95 no.12:Suppl.:Ontode 13 no.12:283  
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The Zentralinstitut fur Giessereitechnik [Central Institute for Casting Technology] is ten years old. Koh lap 96 no.3: Suppl.: Ontode 14 no.3:68 Mr '63.

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